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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/570,041

02/09/2006

Ki-Young Cho

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NEW YORK, NY 10022

EXAMINER

RAMADAN, RAMY O

ART UNIT

PAPER NUMBER

2838

MAIL DATE

DELIVERY MODE

05/08/2008

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/570,041	Applicant(s) CHO, KI-YOUNG	
	Examiner RAMY RAMADAN	Art Unit 2838	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 09 February 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☒ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-11 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☐ Claim(s) _____ is/are rejected.
- 7) ☒ Claim(s) 1-11 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 21 November 2006 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Drawings

1. The drawings are objected to because they fail to label the element boxes in figure 1. Without some indication as to the content of the boxes (or preferably symbols of the actual elements) it is not clear as to what the elements are and they are not explanatory to a reader as a quick method of determining the general background of the invention.

See MPEP 608.02 and 37 CFR 1.84 (o) -- **Legends**

Suitable descriptive legends may be used, or may be required by the Examiner, where necessary for understanding of the drawing, subject to approval by the Office. They should contain as few words as possible.

Claim Objections

2. Claims 1 and 3 are objected to because of the following informalities:

The limitation "the electromagnetic waves of which are blocked" (claim 1, lines 8-9) is objected to as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention, since it is not clear what the applicant means by the limitation.

Claim 1, lines 19-23 should read as follows:

"converter (120) to detect a variation in current resulting from an approach of the battery pack (B) to a non-contact charging pad, and outputting a comparison current depending on the variation in current; ~~[[a]]~~ the central processing

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unit (180) for detecting the approach of the battery pack (B) using the comparison current [[input]] output “.

The term “the non-contact charging pad” (claim 1, lines 29-30) lacks antecedent basis, but if added to the claim language as suggested by the examiner above, the problem will be overcome.

The term “a gate driver (160)” should read as --the gate driver (160)-- (claim 1, lines 30-31).

The word “input” should read as --inputted-- (claim 3, line 7).

The word --the-- should be added before the term “variation” (claim 3, line 10).

The term “a comparison” should read as --the comparison-- (claim 3, line 12).

Appropriate correction is required.

Allowable Subject Matter

3. Claims 1-11 would be allowed, if the objections stated above are obviated.
4. As allowable subject matter has been indicated, applicant's reply must either comply with all formal requirements or specifically traverse each requirement not complied with. See 37 CFR 1.111(b) and MPEP § 707.07(a).
5. The following is a statement of reasons for the indication of allowable subject matter:

As per claim 1 primarily, the prior art of record, taken alone or in combination thereof, does not disclose or suggest in the claimed combination:

An electromagnetic wave filter connected to a power input terminal to block electromagnetic waves caused by Alternating Current (AC) power, an ion generation

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unit, a current detection unit interposed between a flyback converter and a series resonance type converter to detect a variation in current resulting from an approach of a battery pack to a non-contact charging pad, and outputting a comparison current depending on variation in current; a central processing unit (180) for detecting the approach of the battery pack (B) using the comparison current input from the current detection unit (170), controlling the gate drive (160) according not only to whether the battery pack (B) approaches but also to the current of a temperature protection circuit unit (183) to stop the switching of the gate drive (160) when abnormal operation occurs or the temperature of a foreign object placed on the non-contact charging pad exceeds a predetermined temperature, a gate driver (160) for outputting gate signals under the control of the central processing unit (180).

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to RAMY RAMADAN whose telephone number is (571) 272-9761. The examiner can normally be reached on Mon-Fri 7:30 am-5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Akm Ullah can be reached on (571) 272-2361. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

5/6/2008

/Gary L. Laxton/
Primary Examiner
Art Unit 2838

/RR/